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Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997
INSTRUCTIONS

1. General – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials . . ." line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . .," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

3. Contract Work – Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

4. Resales – Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."

5. Produced and Consumed – Forgings, foundries, and screw machine products – Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

Line No.	Materials, parts, and supplies (A)	Census material code (B)	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in) (E)		
			574 Millions	Thou- sands	Dollars
1	"Core" parts purchased for use in remanufacturing or rebuilding	999826 1	\$		
2	FLUID POWER PRODUCTS (Hydraulic and pneumatic)	Hydraulic and pneumatic fluid power pumps, motors, and hydrostatic transmissions	359412 4		
3		Valves	349271 7		
4		Cylinders and rotary actuators	359301 9		
5		Hose or tube fittings and assemblies	349261 8		
6		Filters	356921 7		
7		Other fluid power products, except pumps, compressors, valves, cylinders, rotary actuators, hose or tube fittings and assemblies, etc.	190089 3		
8	FABRICATED METAL PRODUCTS, EXCEPT FORGINGS	Automotive stampings (including body parts, hubcaps, fenders, etc.)	346501 0		
9		Bolts, nuts, screws, rivets, washers, and screw machine products	345001 2		
10		Other fabricated metal products, except fluid power	340056 1		
11	Forgings	346000 3			
12	CASTINGS (Rough and semifinished)	Iron and steel	332001 7		
13		Aluminum and aluminum-base alloy	336005 4		
14		Other nonferrous	336003 9		

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 - Continued							
Line No.	Materials, parts, and supplies (A)			Census material code (B)	Consumption of purchased materials and of materials received from other establishments of your company		
					Cost, including delivery cost (freight-in) (E)		
					574	Thou-	Dollars
				571	Millions	sands	
15	Shapes and Forms (Except castings, forgings, and fabricated metal products)	STEEL	Bars, bar shapes, and plates	331007 5	\$		
16			Sheet and strip	331022 4			
17			All other steel mill shapes and forms	331034 9			
18		Copper and copper-base alloy		335004 8			
19		Aluminum and aluminum-base alloy		335010 5			
20		Other nonferrous shapes and forms		335099 8			
21	BEARINGS (Mounted or unmounted)	Ball		356218 8			
22		Roller		356201 4			
23	Fabricated plastics products (except gaskets)			308006 6			
24	Plastics products consumed in the form of sheets, rods, tubes, and other shapes			308007 4			
25	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes			282104 9			
26	Fabricated rubber products (except tires, tubes, hose, belting, and gaskets)			306902 8			
27	Rubber and plastics hose and belting			305201 6			
28	Ceramic raw materials (including powders, chemicals, and fibers; excluding refractory uses)			280020 9			
29	Ceramic and ceramic composite parts, components, and accessories			320601 8			
30	Gaskets (all types), packing, and sealing devices			305302 2			
31	Paints, varnishes, lacquers, stains, shellacs, japans, enamels, and allied products			285101 2			
32	Glues and adhesives			289101 8			
33	Flexible packaging materials			190003 4			
34	Paper and paperboard containers			260051 8			
35	Engine electrical equipment (spark plugs, generators, starting motors, distributors, ignition coils, ignition harness, and cable sets, switches, etc.)			369401 5			
36	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components			367004 9			
37	Cost of all other materials and components, parts, containers, and supplies consumed. <i>Describe the principal materials, etc., included in this value.</i>			970099 8			
38	TOTAL Sum of lines 1-37 should equal item 10, line a				\$		

Item 18A - Not applicable to this report

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997
INSTRUCTIONS

1. General - The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Products - Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

3. Contract Work - Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.

4. Resales - Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."

5. Detailed Data Reported Elsewhere - Items denoted by an asterisk (*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form.

NOTE: Only CIR totals are requested; do not duplicate detail reported on the CIR.

Line No.	Products and services (A)		Census product code	Products shipped and other receipts			
			581	Value, f.o.b. plant (E)			
	(B)	584	Millions	Thousands	Dollars		
1	Gasoline Engines and Gasoline Engine Parts for Motor Vehicles, New (37142) - (Report remanufactured gasoline engines and gasoline engine parts for motor vehicles on lines 120-125)	Gasoline engines, new (with or without cylinder heads, fuel pumps, water pumps, and other standard accessories)	37142 01 5	\$			
2		Intake manifolds	37142 06 4				
3		Exhaust manifolds	37142 07 2				
4		Crankshafts, engine	37142 08 0				
5		Camshafts, engine	37142 09 8				
6		Rocker arms and parts	37142 15 5				
7		Valve guides, seats, and tappets	37142 16 3				
8		Fuel injection systems	37142 18 9				
9		Flywheels and flexplates	37142 17 1				
10		Timing gears, sprockets, and chains	37142 22 1				
11		ENGINE BEARINGS (Halves)	Main	37142 24 7			
12			Connecting rod	37142 25 4			
13			Other (balance shaft, camshaft, etc.)	37142 26 2			
14		OIL PUMPS, NEW	Engine	37142 27 0			
15			Power steering	37142 28 8			
16		Fuel pump assemblies (excluding kits)	37142 31 2				
17		Water pump assemblies (excluding kits)	37142 32 0				
18		Engine cooling fans (including hubs and clutches)	37142 34 6				
19		Radiators, complete	37142 35 3				
20		Radiator shells and cores	37142 36 1				
21		Thermostats (engine cooling system)	37142 37 9				
22	(Continued on next page)	PCV (positive crankcase ventilation) valves	37142 41 1				

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports		Census product code 581 (B)	Products shipped and other receipts			
				Value, f.o.b. plant (E)			
				584 Millions	Thou- sands	Dollars	
23	Gasoline Engines and Gasoline Engine Parts for Motor Vehicles, New (37142) - (Report remanufactured gasoline engines and gasoline engine parts for motor vehicles on lines 120-125) - Continued	ALL OTHER PARTS AND ACCESSORIES FOR GASOLINE AUTOMOTIVE ENGINES - Specify principal products and their values on lines 23 to 25 and report the residual on line 26 →	37142 49 4	\$			
24			37142 49 4				
25			37142 49 4				
26			37142 49 4				
27	Diesel, semidiesel, and dual-fuel engines for automobiles, highway trucks, and buses (corresponds to the sum of item codes 9410-9425 as reported on CIR Form MA35L, Internal Combustion Engines, for 1997) (35194)*		35194 00 0				
28	Parts and Accessories for Internal Combustion Engines (Except aircraft and gasoline automotive engines and gas turbines) (35199)	Crankshafts, engine	35199 08 2				
29		Camshafts, engine	35199 09 0				
30		Engine blocks	35199 35 5				
31		Cylinder liners (sleeves)	35199 39 7				
32		Intake manifolds and exhaust manifolds	35199 63 7				
33		Valve guides, seats, and tappets	35199 67 8				
34		Rocker arms and parts	35199 71 0				
35		Fuel injection systems (multipoint)	35199 75 1				
36		Superchargers (including turbochargers)	35199 91 8				
37		Flywheels	35199 21 5				
38		ENGINE BEARINGS (Halves)	Main (crankshaft)	35199 24 9			
39			Connecting rod	35199 25 6			
40			Other (balance shaft, camshaft, etc.)	35199 33 0			
41			Engine oil pumps	35199 27 2			
42			Other engine parts and accessories - Specify kind	35199 99 1			
43	Filters for Internal Combustion Engines, New (37144)	OIL	Light-duty (car and light truck)	37144 01 1			
44			Heavy-duty	37144 02 9			
45		FUEL	Light-duty (car and light truck)	37144 04 5			
46			Heavy-duty	37144 05 2			
47		AIR	Light-duty (car and light truck)	37144 07 8			
48			Heavy-duty	37144 08 6			
49			Other (including coolant and hydraulic)	37144 09 4			

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

Line No.	Products and services (A)		Census product code (B)	Products shipped and other receipts			
				Value, f.o.b. plant (E)			
			581	584	Thou-	Dollars	
			Millions	sands			
50	EXHAUST SYSTEM PARTS, NEW (37145)	Mufflers (including standard, sports or glass pack, and resonators)	37145 01 8	\$			
51		Pipes (including exhaust, intermediate, connecting, crossover, tail, and side pipes)	37145 02 6				
52		Catalytic converters	37145 03 4				
53	Drive Train Components, New (Except wheels and brakes) (37146) - (Report remanufactured Drive Train Components on lines 136-141)	TRANS-MISSIONS (Except auxiliary and parts) (Report transaxles on line 59)	Car and light truck type:				
			• Manual	37146 03 2			
54			• Automatic	37146 05 7			
55			Heavy truck and bus type:				
			• Manual	37146 13 1			
56			• Automatic	37146 15 6			
57		Parts for manual transmissions	37146 23 0				
58		Parts for automatic transmissions	37146 25 5				
59		Transaxles	37146 28 9				
60		Clutch disc and facing assemblies	37146 31 3				
61		Gear shifters	37146 33 9				
62		Drive shafts	37146 35 4				
63		Universal joints	37146 37 0				
64	Axles and axle parts	37146 41 2					
65	Wheel hubs (sold separately)	37146 43 8					
66	Other drive train components	37146 49 5					
67	Motor Vehicle Wheels, New (37147)	CAR AND LIGHT TRUCK TYPE	Steel	37147 01 4			
68			Aluminum	37147 05 5			
69			Other (including combination)	37147 07 1			
70		Heavy truck and bus type (including those for truck trailers and trailer coaches)	37147 14 7				
71	Brake Parts and Assemblies, New (Report remanufactured Brake Parts and Assemblies on lines 126-132)	BRAKE CYLINDERS, NEW	Wheel (sold separately)	37148 01 2			
72			Master (sold separately)	37148 02 0			
73		Brake valves	37148 03 8				
74		Brake assemblies (drum) (including backing plates, shoes, linings (except asbestos), cylinders, etc., if sold together)	37148 07 9				
75		Brake assemblies (disc/caliper) (including rotors, calipers, pads (except asbestos), cylinders, etc., if sold together)	37148 09 5				
76		Brake drums (with or without hub) sold separately	37148 11 1				
77		Brake rotors/discs (with or without hub) sold separately	37148 13 7				
78		Brake shoes (with or without lining) sold separately	37148 15 2				
79		Metallic or semimetallic brake linings (excluding asbestos)	37148 17 8				
80		(Continued on next page)	Automotive brake hose assemblies	37149 12 7			

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued							
Line No.	Products and services (A)			Census product code 581 (B)	Products shipped and other receipts		
					Value, f.o.b. plant (E)		
				584	Thou-	Dollars	
				Millions	sands		
81	Brake Parts and Assemblies, New (Report remanufactured Brake Parts and Assemblies on lines 126-132) - Continued	BRAKE POWER ACTUATION UNITS	Air	37148 21 0	\$		
82			Hydraulic	37148 23 6			
83			Vacuum	37148 25 1			
84		Other brake parts		37148 27 7			
85	STEERING AND SUSPENSION COMPONENTS (Report rebuilt steering and suspension components on lines 133-135)	Shock absorbers		37149 05 1			
86		Struts		37149 43 2			
87		Tie rod ends		37149 06 9			
88		Steering idler arms, drag links, and control arms		37149 07 7			
89		Ball joints		37149 08 5			
90		Automotive power steering hose assemblies		37149 11 9			
91		Steering wheels, columns and gearboxes		37149 20 0			
92		Rack and pinion steering gears		37149 18 4			
93		Integral gears and manual steering gears		37149 19 2			
94		Other steering and suspension components		37149 26 7			
95	Motor Vehicle Electrical and Electronic Equipment, New (Report rebuilt engine electrical and other electrical equipment on lines 142-148)	ENGINE ELECTRICAL EQUIPMENT, NEW	Ignition harness and cable sets	36941 00 3			
96			Generators, alternators and regulators, new	36942 01 9			
97			Starting (engine cranking) motors, new	36943 01 7			
98			Spark plugs	36944 00 7			
99			Other engine electrical equipment, new	36940 00 5			
100		OTHER ELECTRICAL AND ELECTRONIC EQUIPMENT, NEW, EXCEPT ENGINE	Windshield wiper/washer subassemblies, including pumps		37149 21 8		
101			Block and battery heaters		37149 42 4		
102			Other automotive heaters, heater cores and other heater parts		37149 44 0		
103			Permanent defrosters		37149 14 3		
104			Cruise control units		37149 13 5		
105	Instrument board assemblies		37149 45 7				
106	Wiring harness sets, except ignition		37149 15 0				
107	Electronic control modular chips for motor vehicles		36799 26 0				
108	Other automotive electrical equipment, except engine		37149 46 5				
109	ALL OTHER MOTOR VEHICLE PARTS AND ACCESSORIES, NEW (Report other remanufactured parts and accessories on lines 120-149)	Bumper assemblies, bumpers, and parts		37149 01 0			
110		Automotive frames		37149 02 8			
111		Fuel tanks		37149 03 6			
112		Automotive air conditioning hose assemblies		37149 09 3			
113		Windshield wiper blades		37149 16 8			
114		Convertible tops		37149 22 6			

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

Line No.	Products and services (A)			Census product code (B)	Products shipped and other receipts		
					Value, f.o.b. plant (E)		
				581	584		Millions
115	ALL OTHER MOTOR VEHICLE PARTS AND ACCESSORIES, NEW (Report other remanufactured parts and accessories on lines 120-149) - Continued	Sunroof and parts		37149 23 4	\$		
116		Dumptruck lifting mechanisms		37149 24 2			
117		Fifth wheels		37149 25 9			
118		Automotive airbag assemblies and parts thereof		37149 31 7			
119		All other motor vehicle parts - <i>Specify</i>		37149 51 5			
	Rebuilt or remanufactured parts must have been dismantled and reconstructed, as necessary, all parts cleaned and made free from rust and corrosion; damaged, defective, worn, and missing parts restored or replaced; and other operations performed necessary to put the product in sound working condition.						
120	Rebuilt Gasoline Engines and Engine Parts for Motor Vehicles	REBUILT GASOLINE ENGINES	Car and light truck type		3714A 23 1		
121			Heavy truck and bus type		3714A 25 6		
122		Rebuilt fuel pumps		3714A 02 5			
123		Rebuilt water pumps		3714A 03 3			
124		Rebuilt carburetors		35921 03 0			
125		Other rebuilt engine parts, and components		3714A 43 9			
126		Rebuilt Motor Vehicle Brake Parts and Assemblies	REBUILT BRAKE POWER ACTUATION UNITS	Air		3714A 33 0	
127	Vacuum			3714A 35 5			
128	Hydraulic			3714A 37 1			
129	Rebuilt brake shoe assemblies (drum brake)		3714A 09 0				
130	Rebuilt brake caliper assemblies (disc brake)		3714A 10 8				
131	Rebuilt brake master cylinders		3714A 11 6				
132	Other rebuilt brake systems and parts		3714A 44 7				
133	Rebuilt Motor Vehicle Steering and Suspension Components	Rebuilt rack and pinion steering assemblies		3714A 39 7			
134		Rebuilt power steering pumps		3714A 06 6			
135		Other rebuilt steering and suspension components		3714A 47 0			
136	Rebuilt Motor Vehicle Transmissions and Drive Train Parts	REBUILT TRANSMISSIONS INCLUDING DRIVE LINES AND AXLES, AND PARTS	Car and light truck type	Automatic	3714A 27 2		
137				Manual	3714A 29 8		
138		Heavy duty truck and bus type		3714A 31 4			
139		Other rebuilt transmission parts including clutch and facing assemblies, gear shifters, universal joints, and wheel hubs		3714A 32 2			
140		Rebuilt clutch discs and pressure plates		3714A 04 1			
141		Other rebuilt drive train parts and components		3714A 30 6			

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

Line No.	Products and services (A)		Census product code 581 (B)	Products shipped and other receipts			
				Value, f.o.b. plant (E)			
			584 Millions	Thou- sands	Dollars		
142	Rebuilt Electrical and Electronic Equipment	Rebuilt windshield wiper-washer units	3714A 40 5	\$			
143		Rebuilt generators and alternators	36942 03 5				
144		Rebuilt regulators	36942 04 3				
145		Rebuilt starting (engine cranking) motors	36943 03 3				
146		Rebuilt cruise control units	3714A 05 8				
147		Other rebuilt engine electrical equipment, except generators, alternators, regulators and starting motors (Report new equipment on lines 95-99)	36940 00 5				
148		Other rebuilt electrical equipment, except engine electrical equipment - <i>Specify kind</i>					
			3714A 51 2				
149	Other rebuilt motor vehicle parts - <i>Specify kind</i>						
			3714A 52 0				
150	Special Dies and Tools, Die Sets, Jigs, and Fixtures (35441)	JIGS AND FIXTURES, ALL TYPES	Gauging and checking types: • Less than 1,000 lbs weight	35441 13 8			
151			• 1,000 lbs weight or more	35441 15 3			
152			All other jigs and fixtures (holding, positioning, layout, assembly, etc.):	• Work holding fixtures; less than 1,000 lbs weight	35441 16 1		
				• Other than work holding fixtures; less than 1,000 lbs weight	35441 14 6		
154			• 1,000 lb weight or more	35441 18 7			
155			Standard catalog components and parts for jigs and fixtures (including drill bushings)	35441 19 5			
156			DIES, METAL CUTTING ONLY	Press brake dies	35441 21 1		
157		Forming and drawing dies:		• 500 lbs weight or less	35441 22 9		
				• 501 to 3,000 lbs weight	35441 24 5		
159		• More than 3,000 lbs weight		35441 26 0			
160		Stamping dies (including lamination and blanking dies): Progressive-type dies:		• High-speed steel	35441 27 8		
				• Carbide	35441 28 6		
162		• Other		35441 25 2			
163		All other stamping-type dies (punch, trim, notch, pierce, etc.)		35441 23 7			
164		Forging dies (including cold forging and heading):		• Open die type	35441 33 6		
	• Closed die type			35441 35 1			
166	Extrusion and wire-drawing and straightening dies	Ceramic and ceramic composite	35441 42 7				
167		High-speed steel	35441 43 5				
168		Carbide	35441 45 0				
169		Other	35441 44 3				

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports				Census product code	Products shipped and other receipts		
						Value, f.o.b. plant (E)		
	(A)				581 (B)	584 Millions	Thousands	Dollars
170	Special Dies and Tools, Die Sets, Jigs, and Fixtures (35441) - Continued	DIES, METAL CUTTING ONLY - Continued	All other dies	High-speed steel	35441 46 8	\$		
171				Carbide	35441 47 6			
172				Other	35441 48 4			
173			Standard and special components and parts for dies	Die sets	35441 73 2			
174				Standard punches:	35441 75 7			
175				• Steel				
176				• Carbide	35441 77 3			
177				• Other	35441 78 1			
177			Industrial models and prototypes			35441 83 1		
178	Other specialty designed tooling			35441 89 8				
179	Gray iron castings (excluding cast iron, ductile iron, and molds for heavy steel ingots)				33219 00 7			
180	Job stampings, automotive (34650)				34650 00 2			
181	Parts for farm machinery and equipment, sold separately, except parts for wheel tractors (excluding engine parts) (corresponds to survey item codes 6218, 6269, 6289, 6389, 6469, 6589, 6689, 6739, 6798, 6829, 6849, 6859, 6869, 6879, 6890, and 6899 as reported on CIR Form MA35A, Farm Machinery and Lawn and Garden Equipment, for 1997)* - Specify kind				35239 00 3			
182	Parts for wheel tractors (replacement only) (excluding engine parts) (corresponds to survey item code 6199 as reported on CIR Form MA35A, Farm Machinery and Lawn and Garden Equipment, for 1997)*				35239 26 8			
183	PARTS AND ATTACHMENTS FOR INDUSTRIAL TRUCKS AND TRACTORS (35374)	Parts and attachments for industrial work trucks fitted with lifting or handling equipment		35374 12 3				
184		Parts and attachments for other vehicles		35374 13 1				
185		Parts and attachments for machinery other than vehicles		35374 14 9				
186	Military tanks and parts				37950 01 1			
187	CIVILIAN AIRCRAFT ENGINE PARTS AND ACCESSORIES	For spark ignition reciprocating or rotary internal combustion engines		37244 05 0				
188		For other engines		37244 06 8				
189	Pistons, piston rings, and piston pins (engine)				35922 00 4			
190	Speedometers, motor vehicle (corresponds to item code 5531 as reported on CIR Form MA38B, Selected Instruments and Related Products, for 1997)*				38244 00 0			
191	Gasoline and gas-gasoline engines (except aircraft, automobile, highway truck, bus, tank, and outboard marine) (corresponds to the sum of item codes 9101-9207 as reported on CIR Form MA35L, Internal Combustion Engines, for 1997) (35191)*				35191 00 6			
192	Power transmission equipment (except speed changers, drives, gears, and hydrostatic transmissions) (excluding automotive, truck, bus, and aircraft)				35683 00 2			

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports (A)		Census product code 581 (B)	Products shipped and other receipts		
				Value, f.o.b. plant (E)		
				584 Millions	Thou- sands	Dollars
193	MOTOR VEHICLE MECHANICAL AIR-CONDITIONING SYSTEMS (Corresponds to the sum of survey item codes 5F79 and 5F81 as reported on CIR Form MA35M, Refrigeration and Air-Conditioning Equipment, for 1997) (35857)*	Passenger automobiles	35857 05 1	\$		
194		Buses	35857 07 7			
195		All other	35857 19 2			
196	Receipts for machine shop job work (35995)		35995 00 0			
197	Fractional horsepower motors (corresponds to the sum of item codes 1015-2648 and 2841-2916 as reported on CIR Form MA36H, Motors and Generators, for 1997) (36211)*		36211 00 1			
198	Integral horsepower motors and generators (except for land transportation equipment) (corresponds to the sum of item codes 4204-4329, 4380-4396, and 4601-4604 as reported on CIR Form MA36H, Motors and Generators, for 1997) (36212)*		36212 00 9			
199	Land transportation motors, generators, and control equipment and parts (corresponds to the item code 5310 as reported on CIR Form MA36H, Motors and Generators, for 1997) (36213)*		36213 00 7			
200	Motor-generator sets and other rotating equipment (including hermetics, fractional) (corresponds to the sum of item codes 8515, 8553-8563, and 8583 as reported on CIR Form MA36H, Motors and Generators, for 1997) (36217)*		36217 00 8			
201	AUTOMOBILE COIL SPRINGS	For domestic replacement and shipments for export (including shipments to U.S. motor vehicle manufacturers for resale)	34931 05 5			
202		Shipments to U.S. motor vehicle manufacturers of their suppliers for use in original equipment	34931 06 3			
203	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	<i>Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. Specify unit of measure for quantity. For all remaining products, write "Other" and report a single total value.</i>	18			
204			26			
205			34			
206			42			
207			59			
208			CONTRACT WORK	Receipts for work done for others on their own materials. <i>Describe below products worked on and kind of work.</i>	93000 00 8	
209	MISCELLANEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8			
210		Receipts for research and development work	99980 41 9			
211		Other miscellaneous receipts	99980 98 9			
212	RESALES	Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 10, line b.	99989 00 6			
213	TOTAL value of shipments and other receipts Sum of lines 1-212, column (E)		77000 00 8	\$		

CONTINUE WITH ITEM 19 ON PAGE 15

If not shown, please enter your 11-digit Census File Number from the address label on page 1	Census File Number
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Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

INSTRUCTIONS

1. Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment. 2. Purchases or receipts of the items specified below should be reported only in item 17.	3. Materials used to produce the items specified below should be reported in item 17. 4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B. 5. Report quantities in the unit of measure specified in column (D).
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Line No.	Item (A)	Census code (B)	Was this operation performed at this establishment during 1997? (C)		Unit of measure for quantities (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment
						592
			591	Yes		No
1	Ferrous foundries	1001 7	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons	
2	NONFERROUS FOUNDRIES (Except die-casting)	Aluminum	1 <input type="checkbox"/>	2 <input type="checkbox"/>	↑ Thousand pounds ↓	
3		Copper	1 <input type="checkbox"/>	2 <input type="checkbox"/>		
4		Zinc	1 <input type="checkbox"/>	2 <input type="checkbox"/>		
5		Other	1 <input type="checkbox"/>	2 <input type="checkbox"/>		
6	Nonferrous die-casting foundries	1006 6	1 <input type="checkbox"/>	2 <input type="checkbox"/>		
7	Precision turned products (on screw machines, turning centers, and CNC equipment)	1007 4	1 <input type="checkbox"/>	2 <input type="checkbox"/>		

Item 20. SUPPLEMENTAL INQUIRY ON DISTRIBUTION OF SHIPMENTS BY END USE

INSTRUCTIONS

1. General <ul style="list-style-type: none"> • Report shipments on distribution by end use of products listed on page 16. • Do not report imported resale, purchased for resale, or received from other plants of your company for resale. The value of such purchased products should be reported under "Resales" on line 212 of item 18B. • If your book records do not contain information as requested, REASONABLE ESTIMATES ARE ACCEPTABLE. 2. Special Instructions - <p>Column (E) - Total Value of Product Shipments:</p> <ul style="list-style-type: none"> • Post data from column (E) of item 18B for appropriate product lines listed on page 16. • Before posting, see references in product class descriptions below showing corresponding product lines in item 18B. For example, line 1, "Gasoline engines and gasoline engine parts for motor vehicles, new" corresponds to lines 1-26 in item 18B. • The data reported in column (E) should equal the sum of data reported in columns (G), (H), and (I). If not, please explain in the "Remarks" section on page 16. <p>Column (G) - Value of Shipments for Domestic Replacement:</p> <ul style="list-style-type: none"> • Report value of shipments of products listed on page 16 for domestic (U.S.) replacement. 	<ul style="list-style-type: none"> • Include replacement (service) products shipped to motor vehicle manufacturers, transfers to other plants of your company, direct shipments to distributors, dealers, jobbers, wholesalers, fleet operators, government, etc. • Exclude replacement shipments outside the U.S. (include such shipments in column (I), Shipments for Export). <p>Column (H) - Shipments for Use in Domestic Original Equipment Manufacturing (O.E.M.):</p> <ul style="list-style-type: none"> • Report value of shipments of products listed on page 16 to U.S. motor vehicle manufacturers and their suppliers for use in original equipment (O.E.M.) produced in the U.S. • Include original equipment products transferred to other plants of your company for incorporation or assembly in automobiles, trucks, and buses. • Include shipments to depots and warehouses of the same company where such shipments are for subsequent use in original equipment. • Exclude shipments for use in O.E.M. to be produced outside the U.S. (include such shipments in column (I), Shipments for Exports). <p>Column (I) - Shipments for Export:</p> <ul style="list-style-type: none"> • Report value of shipments of exports of products listed on page 16: • Report value of shipments for exports regardless of whether products are shipped as replacement products or for original equipment manufacturing.
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CONTINUE WITH ITEM 20 ON PAGE 16

Item 20. SUPPLEMENTAL INQUIRY ON DISTRIBUTION OF SHIPMENTS BY END USE - Continued

Line No.	Products (A)	Census product code (B)	Total shipments (including interplant transfers)		Shipments for domestic replacement (including shipments to U.S. motor vehicle manufacturers for resale)		Shipments to U.S. motor vehicle manufacturers or their suppliers for use in domestic original equipment		Shipments for export (including transfers to other divisions for export)	
			Value (E)		Value (G)		Value (H)		Value (I)	
			594 Millions	Thou- sands	595 Millions	Thou- sands	596 Millions	Thou- sands	597 Millions	Thou- sands
1	Gasoline engines and gasoline engine parts for motor vehicles, new (corresponds to lines 1-26, item 18B)	037142 7	\$		\$		\$		\$	
2	Filters for internal combustion engines (corresponds to lines 43-49, item 18B)	037144 3								
3	Exhaust system parts, new (corresponds to lines 50-52, item 18B)	037145 0								
4	Drive train components, new (except wheels and brakes) (corresponds to lines 53-66, item 18B)	037146 8								
5	Motor vehicle wheels, new (corresponds to lines 67-70, item 18B)	037147 6								
6	Brake parts and assemblies, new (corresponds to lines 71-84, item 18B)	037148 4								
7	All other motor vehicle parts and accessories, new, n.e.c. (corresponds to lines 85-94, 100-119, item 18B)	037149 2								

Item 21 - Not applicable to this report

REMARKS - Please use this space for any explanations that may be essential in understanding your reported data.

Item 22. CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report (<i>Print or type</i>)				Telephone	Area code	Number	Extension
667	1			2			
Name of company				Address (<i>Number and street, city, State, ZIP Code</i>)			
Period covered	FROM: Month	Day	Year	TO: Month	Day	Year	
	666	1		2			
Signature of authorized person			Title			Date	